

### Claims

1. A method for preparing a fluorocarbon elastomeric base composition comprising:

(I) mixing

- 5                   (A) a silicone base comprising a curable organopolysiloxane,  
                  (B) an optional crosslinking agent,  
                  (C) a cure agent,  
                  to form a silicone compound;

(II) mixing the silicone compound with

- 10                   (D) a fluorocarbon elastomer,  
                  (E) an optional compatibilizer,  
                  (F) an optional catalyst;  
                  and

(III) dynamically vulcanizing the silicone compound,

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wherein the weight ratio of fluorocarbon elastomer (D) to silicone base (A) in the elastomeric base composition ranges from 95:5 to 30:70.

2. The method of claim 1 wherein the silicone base comprises;

- 20                   (A') a diorganopolysiloxane containing at least 2 alkenyl groups having 2 to 20 carbon  
                  atoms, and  
                  (A'') an optional reinforcing filler.

3. The method of claim 2 wherein the crosslinking agent is present and is an organohydrido  
25                   silicon compound.

4. The method of claim 3 wherein the cure agent is a platinum catalyst.

5. The method of claim 1 or 2 wherein the cure agent is a free radical initiator.

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6. The method of claim 1 wherein the fluorocarbon elastomer comprises a copolymer of vinylidene fluoride and hexafluoropropene, a copolymer of tetrafluoroethylene and

propylene, a terpolymer of vinylidene fluoride, hexafluoropropene, and tetrafluoroethene, or a terpolymer of vinylidene fluoride, tetrafluoroethene, and perfluoromethylvinyl ether.

7. The method of claim 1 wherein the compatibilizer (E) is present and is selected from;

(E<sup>1</sup>) an organic compounds which contain 2 or more olefin groups,

(E<sup>2</sup>) organopolysiloxanes containing at least 2 alkenyl groups,

(E<sup>3</sup>) olefin-functional silanes which also contain at least one hydrolyzable group or at least one hydroxyl group attached to a silicon atom thereof,

(E<sup>4</sup>) an organopolysiloxane having at least one organofunctional groups selected from amine, amide, isocyanurate, phenol, acrylate, epoxy, and thiol groups,

(E<sup>5</sup>), a dehydrofluorination agent,

and any combinations of (E<sup>1</sup>), (E<sup>2</sup>), (E<sup>3</sup>), (E<sup>4</sup>) and (E<sup>5</sup>).

8. The method of claim 1 wherein the catalyst (F) is present and is selected from an organic peroxide.

9. The method according to any one of claims 1 – 8 wherein steps II and III are performed in an extruder.

10. The method of claim 9 wherein steps II and III are performed in a extruder in <2 minutes.

11. A fluorocarbon elastomeric base composition produced by any one of claims 1 to 10.

12. A cured fluorocarbon elastomer composition prepared from the product of claim 11.

13. An article of manufacture comprising the cured fluorocarbon elastomer of claim 12.